

IN THE CLAIMS:

Please amend claims 1 and 2 as follows:

1. (Amended) An over-voltage protection device suitable for protecting a mains, the device comprising:

a gas-discharge arrestor;

a varistor and a thermal-fuse element arranged to ensure a thermal disconnection of the over-voltage protection device from the mains,

said gas-discharge arrestor, said varistor, and said thermal-fuse element being mounted in series with each between two lines of the mains,

wherein the over-voltage protection device includes, in parallel with the varistor, a resistor sized so as to cause, after a short-circuiting of the gas-discharge arrestor, a heating of the thermal-fuse element which triggers the thermal disconnection of the over-voltage protection device from the mains.

2. (Amended) The over-voltage protection device according to claim 1, wherein said mains is a low-voltage mains having a voltage of use within a range of voltages bounded by a minimum voltage of use and a maximum voltage of use,

wherein the varistor is sized so as to extinguish the gas-discharge arrestor up to the maximum voltage of use,

wherein the resistor is sized so as to trigger the thermal disconnection of the over-voltage protection device at the minimum voltage of use.